

Serial Number: 09/801,784**ENTERED**CRF Processing Date: 7/18/2001

Edited by: _____

Verified by: _____

STIC staff

TECHNICAL CENTER 1600/2800

DEC 18 2001

RECEIVED

- ☐ Changed a file from non-ASCII to ASCII
- ☒ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: corrected spelling of Consensus

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/801,784

DATE: 07/18/2001

TIME: 11:18:49

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07182001\I801784.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
6 (i) APPLICANT: Cassels, Frederick J.
7 Loomis-Price, Lawrence
9 (ii) TITLE OF INVENTION: PEPTIDES FROM A CONSENSUS PEPTIDE OF
10 E. COLI CS4-CFA/I FAMILY PROTEINS
12 (iii) NUMBER OF SEQUENCES: 37
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Hendricks and Assoc.
16 (B) STREET: P.O. Box 2509
17 (C) CITY: Fairfax
18 (D) STATE: VA
19 (E) COUNTRY: US
20 (F) ZIP: 22031
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
28 (vi) CURRENT APPLICATION DATA:
C--> 29 (A) APPLICATION NUMBER: US/09/801,784
C--> 30 (B) FILING DATE: 09-Mar-2001
31 (C) CLASSIFICATION:
33 (viii) ATTORNEY/AGENT INFORMATION:
34 (A) NAME: Hendricks, Glenna M.
35 (B) REGISTRATION NUMBER: 32.535
36 (C) REFERENCE/DOCKET NUMBER: cas801
38 (ix) TELECOMMUNICATION INFORMATION:
39 (A) TELEPHONE: (703) 425-8405
40 (B) TELEFAX: (702) 425-8406
43 (2) INFORMATION FOR SEQ ID NO: 1:
45 (i) SEQUENCE CHARACTERISTICS:
46 (A) LENGTH: 12 amino acids
47 (B) TYPE: amino acid
48 (C) STRANDEDNESS: single
49 (D) TOPOLOGY: unknown
51 (ii) MOLECULE TYPE: peptide
53 (iii) HYPOTHETICAL: NO
55 (iv) ANTI-SENSE: NO
57 (vi) ORIGINAL SOURCE:
58 (A) ORGANISM: E. coli
59 (B) STRAIN: CS4-CFA/I
62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
64 Ala Ser Val Asp Pro Thr Ile Asp Leu Leu Gln Ala
65 1 5 10
67 (2) INFORMATION FOR SEQ ID NO: 2:
69 (i) SEQUENCE CHARACTERISTICS:

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/801,784

DATE: 07/18/2001

TIME: 11:18:49

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07182001\I801784.raw

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70          (A) LENGTH: 12 amino acids
71          (B) TYPE: amino acid
72          (C) STRANDEDNESS: single
73          (D) TOPOLOGY: unknown
75      (ii) MOLECULE TYPE: peptide
77      (iii) HYPOTHETICAL: NO
79      (iv) ANTI-SENSE: NO
81      (vi) ORIGINAL SOURCE:
82          (A) ORGANISM: E. coli
83          (B) STRAIN: CS4-CFA/I
86      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
88      Ala Ser Val Asp Pro Thr Ile Asp Leu Leu Gln Ala
89      1          5          10
91 (2) INFORMATION FOR SEQ ID NO: 3:
93      (i) SEQUENCE CHARACTERISTICS:
94          (A) LENGTH: 16 amino acids
95          (B) TYPE: amino acid
96          (C) STRANDEDNESS: single
97          (D) TOPOLOGY: unknown
99      (ii) MOLECULE TYPE: peptide
101     (iii) HYPOTHETICAL: NO
103     (iv) ANTI-SENSE: NO
105     (vi) ORIGINAL SOURCE:
106         (A) ORGANISM: E. coli
107         (B) STRAIN: CS4-CFA/I
110     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
112     Thr Val Thr Ala Ser Val Asp Pro Thr Ile Asp Leu Leu Gln Ala Asp
113     1          5          10          15
117 (2) INFORMATION FOR SEQ ID NO: 4:
119     (i) SEQUENCE CHARACTERISTICS:
120         (A) LENGTH: 15 amino acids
121         (B) TYPE: amino acid
122         (C) STRANDEDNESS: single
123         (D) TOPOLOGY: unknown
125     (ii) MOLECULE TYPE: peptide
127     (iii) HYPOTHETICAL: NO
129     (iv) ANTI-SENSE: NO
131     (vi) ORIGINAL SOURCE:
132         (A) ORGANISM: E. coli
133         (B) STRAIN: CS4-CFA/I
136     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
138     Val Thr Ala Ser Val Asp Pro Thr Ile Asp Leu Leu Gln Ala Asp
139     1          5          10          15
141 (2) INFORMATION FOR SEQ ID NO: 5:
143     (i) SEQUENCE CHARACTERISTICS:
144         (A) LENGTH: 14 amino acids
145         (B) TYPE: amino acid
146         (C) STRANDEDNESS: single
147         (D) TOPOLOGY: unknown

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/801,784

DATE: 07/18/2001

TIME: 11:18:49

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07182001\I801784.raw

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149      (ii) MOLECULE TYPE: peptide
151      (iii) HYPOTHETICAL: NO
153      (iv) ANTI-SENSE: NO
155      (vi) ORIGINAL SOURCE:
156          (A) ORGANISM: E. coli
157          (B) STRAIN: CS4-CFA/I
160      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
162      Thr Ala Ser Val Asp Pro Thr Ile Asp Leu Leu Gln Ala Asp
163      1          5          10
165 (2) INFORMATION FOR SEQ ID NO: 6:
167      (i) SEQUENCE CHARACTERISTICS:
168          (A) LENGTH: 13 amino acids
169          (B) TYPE: amino acid
170          (C) STRANDEDNESS: single
171          (D) TOPOLOGY: unknown
173      (ii) MOLECULE TYPE: peptide
175      (iii) HYPOTHETICAL: NO
177      (iv) ANTI-SENSE: NO
179      (vi) ORIGINAL SOURCE:
180          (A) ORGANISM: E. coli
181          (B) STRAIN: CS4-CFA/I
184      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
186      Thr Ala Ser Val Asp Pro Thr Ile Asp Leu Leu Gln Ala
187      1          5          10
189 (2) INFORMATION FOR SEQ ID NO: 7:
191      (i) SEQUENCE CHARACTERISTICS:
192          (A) LENGTH: 8 amino acids
193          (B) TYPE: amino acid
194          (C) STRANDEDNESS: single
195          (D) TOPOLOGY: unknown
197      (ii) MOLECULE TYPE: peptide
199      (iii) HYPOTHETICAL: NO
201      (iv) ANTI-SENSE: NO
203      (vi) ORIGINAL SOURCE:
204          (A) ORGANISM: E. coli
205          (B) STRAIN: CS4-CFA/I
208      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
210      Val Glu Lys Asn Ile Thr Val Thr
211      1          5
213 (2) INFORMATION FOR SEQ ID NO: 8:
215      (i) SEQUENCE CHARACTERISTICS:
216          (A) LENGTH: 8 amino acids
217          (B) TYPE: amino acid
218          (C) STRANDEDNESS: single
219          (D) TOPOLOGY: unknown
221      (ii) MOLECULE TYPE: peptide
223      (iii) HYPOTHETICAL: NO
225      (iv) ANTI-SENSE: NO
227      (vi) ORIGINAL SOURCE:

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/801,784

DATE: 07/18/2001

TIME: 11:18:49

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07182001\I801784.raw

228 (A) ORGANISM: E. coli
229 (B) STRAIN: CS4-CFA/I
232 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
234 Glu Lys Asn Ile Thr Val Thr Ala
235 1 5
237 (2) INFORMATION FOR SEQ ID NO: 9:
239 (i) SEQUENCE CHARACTERISTICS:
240 (A) LENGTH: 8 amino acids
241 (B) TYPE: amino acid
242 (C) STRANDEDNESS: single
243 (D) TOPOLOGY: unknown
245 (ii) MOLECULE TYPE: peptide
247 (iii) HYPOTHETICAL: NO
249 (iv) ANTI-SENSE: NO
251 (vi) ORIGINAL SOURCE:
252 (A) ORGANISM: E. coli
253 (B) STRAIN: CS4-CFA/I
256 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
258 Lys Asn Ile Thr Val Thr Ala Ser
259 1 5
261 (2) INFORMATION FOR SEQ ID NO: 10:
263 (i) SEQUENCE CHARACTERISTICS:
264 (A) LENGTH: 8 amino acids
265 (B) TYPE: amino acid
266 (C) STRANDEDNESS: single
267 (D) TOPOLOGY: unknown
269 (ii) MOLECULE TYPE: peptide
271 (iii) HYPOTHETICAL: NO
273 (iv) ANTI-SENSE: NO
275 (vi) ORIGINAL SOURCE:
276 (A) ORGANISM: E. coli
277 (B) STRAIN: CS4-CFA/I
280 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
282 Asn Ile Thr Val Thr Ala Ser Val
283 1 5
285 (2) INFORMATION FOR SEQ ID NO: 11:
287 (i) SEQUENCE CHARACTERISTICS:
288 (A) LENGTH: 8 amino acids
289 (B) TYPE: amino acid
290 (C) STRANDEDNESS: single
291 (D) TOPOLOGY: unknown
293 (ii) MOLECULE TYPE: peptide
295 (iii) HYPOTHETICAL: NO
297 (iv) ANTI-SENSE: NO
299 (vi) ORIGINAL SOURCE:
300 (A) ORGANISM: E. coli
301 (B) STRAIN: CS4-CFA/I
304 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
306 Ile Thr Val Thr Ala Ser Val Asp

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/801,784

DATE: 07/18/2001

TIME: 11:18:49

Input Set : A:\Pto.amc

Output Set: N:\CRF3\07182001\I801784.raw

307 1 5
309 (2) INFORMATION FOR SEQ ID NO: 12:
311 (i) SEQUENCE CHARACTERISTICS:
312 (A) LENGTH: 8 amino acids
313 (B) TYPE: amino acid
314 (C) STRANDEDNESS: single
315 (D) TOPOLOGY: unknown
317 (ii) MOLECULE TYPE: peptide
319 (iii) HYPOTHETICAL: NO
321 (iv) ANTI-SENSE: NO
323 (vi) ORIGINAL SOURCE:
324 (A) ORGANISM: E. coli
325 (B) STRAIN: CS4-CFA/I
328 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
330 Thr Val Thr Ala Ser Val Asp Pro
331 1 5
333 (2) INFORMATION FOR SEQ ID NO: 13:
335 (i) SEQUENCE CHARACTERISTICS:
336 (A) LENGTH: 8 amino acids
337 (B) TYPE: amino acid
338 (C) STRANDEDNESS: single
339 (D) TOPOLOGY: unknown
341 (ii) MOLECULE TYPE: peptide
343 (iii) HYPOTHETICAL: NO
345 (iv) ANTI-SENSE: NO
347 (vi) ORIGINAL SOURCE:
348 (A) ORGANISM: E. coli
349 (B) STRAIN: CS4-CFA/I
352 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
354 Val Thr Ala Ser Val Asp Pro Thr
355 1 5
357 (2) INFORMATION FOR SEQ ID NO: 14:
359 (i) SEQUENCE CHARACTERISTICS:
360 (A) LENGTH: 8 amino acids
361 (B) TYPE: amino acid
362 (C) STRANDEDNESS: single
363 (D) TOPOLOGY: unknown
365 (ii) MOLECULE TYPE: peptide
367 (iii) HYPOTHETICAL: NO
369 (iv) ANTI-SENSE: NO
371 (vi) ORIGINAL SOURCE:
372 (A) ORGANISM: E. coli
373 (B) STRAIN: CS4-CFA/I
376 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
378 Thr Ala Ser Val Asp Pro Thr Ile
379 1 5
381 (2) INFORMATION FOR SEQ ID NO: 15:
383 (i) SEQUENCE CHARACTERISTICS:
384 (A) LENGTH: 8 amino acids

VERIFICATION SUMMARYPATENT APPLICATION: **US/09/801,784**

DATE: 07/18/2001

TIME: 11:18:50

Input Set : **A:\Pto.amc**Output Set: **N:\CRF3\07182001\I801784.raw**

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

OIPE

RAW SEQUENCE LISTING

DATE: 07/02/2001

PATENT APPLICATION: US/09/801,784

TIME: 16:35:07

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07022001\I801784.raw

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Cassels, Frederick J.

7 Loomis-Price, Lawrence

9 (ii) TITLE OF INVENTION: PEPTIDES FROM A CONSENSUS PEPTIDE OF

10 E.

11 COLI CS4-CFA/I FAMILY PROTEINS

13 (iii) NUMBER OF SEQUENCES: 37

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Hendricks and Assoc.

17 (B) STREET: P.O. Box 2509

18 (C) CITY: Fairfax

19 (D) STATE: VA

20 (E) COUNTRY: US

21 (F) ZIP: 22031

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/801,784

C--> 31 (B) FILING DATE: 09-Mar-2001

32 (C) CLASSIFICATION:

34 (viii) ATTORNEY/AGENT INFORMATION:

35 (A) NAME: Hendricks, Glenna M.

36 (B) REGISTRATION NUMBER: 32.535

37 (C) REFERENCE/DOCKET NUMBER: cas801

39 (ix) TELECOMMUNICATION INFORMATION:

40 (A) TELEPHONE: (703) 425-8405

41 (B) TELEFAX: (702) 425-8406

ERRORED SEQUENCES

92 (2) INFORMATION FOR SEQ ID NO: 3:

94 (i) SEQUENCE CHARACTERISTICS:

95 (A) LENGTH: 16 amino acids

96 (B) TYPE: amino acid

97 (C) STRANDEDNESS: single

98 (D) TOPOLOGY: unknown

100 (ii) MOLECULE TYPE: peptide

102 (iii) HYPOTHETICAL: NO

104 (iv) ANTI-SENSE: NO

106 (vi) ORIGINAL SOURCE:

107 (A) ORGANISM: E. coli

108 (B) STRAIN: CS4-CFA/I

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/801,784

DATE: 07/02/2001

TIME: 16:35:07

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07022001\I801784.raw

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111      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
113      Thr Val Thr Ala Ser Val Asp Pro Thr Ile Asp Leu Leu Gln Ala
E--> 114 Asp -----
E--> 115      1          5          10          15
911 (2) INFORMATION FOR SEQ ID NO: 37:
913      (i) SEQUENCE CHARACTERISTICS:
914          (A) LENGTH: 37 amino acids
915          (B) TYPE: amino acid
916          (C) STRANDEDNESS: single
917          (D) TOPOLOGY: unknown
919      (ii) MOLECULE TYPE: peptide
921      (iii) HYPOTHETICAL: NO
923      (iv) ANTI-SENSE: NO
925      (vi) ORIGINAL SOURCE:
926          (A) ORGANISM: E. coli
927          (B) STRAIN: CS4-CFA/I
930      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 37:
932      Cys Val Glu Lys Asn Ile Thr Val Thr Ala Ser Val Asp Pro Thr
E--> 933 Ile -----
E--> 934      1          5          10          15
937      Asp Leu Leu Gln Ala Asp Gly Ser Ala Leu Pro Ser Ala Val Ala
E--> 938 Leu -----
E--> 939      20          25          30
942      Thr Tyr Ser Pro Ala
E--> 943      35

```

*format
error*

VERIFICATION SUMMARY

DATE: 07/02/2001

PATENT APPLICATION: US/09/801,784

TIME: 16:35:08

Input Set : A:\PTO.txt

Output Set: N:\CRF3\07022001\I801784.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:114 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0
M:332 Repeated in SeqNo=3
L:933 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0
M:332 Repeated in SeqNo=37